Process Mining Tools for ERP Training Course

Professional Development Training Course Outline

Category	Enterprise Resource Planning (ERP)	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Process Mining is a cutting-edge technology that enables businesses to analyze and optimize their existing processes by extracting knowledge from event logs in their Enterprise Resource Planning (ERP) systems. It provides deep insights into process inefficiencies, bottlenecks, and areas for improvement by visualizing actual process flows, comparing them with intended workflows, and facilitating data-driven decision-making. As businesses increasingly rely on ERP systems for managing operations, Process Mining offers a powerful tool for enhancing performance, achieving operational excellence, and ensuring compliance with internal and external regulations. In this training course, participants will learn how to harness the full potential of Process Mining tools to unlock valuable insights and drive continuous improvement within ERP environments.

Process Mining Tools for ERP Training Course aims to equip professionals with the knowledge and skills required to use Process Mining to optimize and streamline ERP systems. Participants will gain hands-on experience in identifying process deviations, improving business workflows, and applying best practices for process optimization. The course is designed for individuals looking to leverage advanced analytics to improve the efficiency, transparency, and agility of ERP processes. Through a blend of theory, practical case studies, and live demonstrations, this course will prepare attendees to effectively utilize Process Mining tools and take their organization’s ERP systems to the next level.

Programme Curriculum

Process Mining Tools for ERP Training Course

Introduction

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10 days

Course Objectives

1. Understand the fundamentals of Process Mining and its role in optimizing ERP systems.
2. Explore the key benefits of integrating Process Mining tools with ERP software.
3. Learn to analyze and visualize process flows using Process Mining techniques.
4. Identify bottlenecks and inefficiencies within ERP processes for performance improvement.
5. Apply data-driven decision-making to improve business workflows.
6. Use Process Mining tools to compare real-life processes with the designed process models in ERP systems.
7. Enhance process transparency and ensure compliance with regulations and standards.
8. Develop skills to detect process deviations and root causes within ERP systems.
9. Gain expertise in automating process discovery and performance analytics.
10. Master techniques for continuous improvement in business operations through Process Mining insights.
11. Integrate Process Mining tools into ERP-based digital transformation strategies.
12. Learn to benchmark processes across different departments and improve cross-functional collaboration.
13. Develop the ability to create customized reports and dashboards for continuous monitoring of ERP processes.

Target Audience

1. ERP system administrators.
2. Process improvement specialists.
3. Data analysts.
4. Project managers.
5. Business process consultants.
6. IT professionals.
7. Operations managers.
8. C-level executives.

Course Modules

Module 1: Introduction to Process Mining and ERP Integration

- Overview of Process Mining concepts
- Key ERP systems and their processes
- Benefits of integrating Process Mining with ERP systems
- Real-world examples of ERP-Process Mining integration
- Case study: How Process Mining improved ERP efficiency for a retail chain

Module 2: Process Discovery in ERP Systems

- Data extraction and preprocessing
- Using Process Mining tools for process discovery
- Key techniques for identifying process variants
- Mapping process flows from ERP event logs
- Case study: Discovering hidden inefficiencies in an SAP-based ERP system

Module 3: Visualizing and Analyzing Process Data

- Introduction to process visualization tools
- Key process performance metrics
- Analyzing bottlenecks and deviations in ERP processes
- Creating process models from event logs
- Case study: Visualizing order-to-cash process in ERP

Module 4: Process Conformance Checking

- Understanding process conformance and compliance
- How to compare real process flows with predefined models
- Tools for conformance checking within ERP systems
- Identifying discrepancies and non-compliance in ERP processes
- Case study: Conformance checking in a manufacturing ERP system

Module 5: Identifying and Resolving Bottlenecks in ERP

- Tools for pinpointing bottlenecks in ERP processes
- Methods for analyzing root causes of delays
- Techniques for process optimization in ERP workflows
- Prioritizing improvements to maximize impact
- Case study: Reducing order fulfillment time in a global supply chain ERP

Module 6: Automating Process Monitoring in ERP Systems

- Setting up continuous process monitoring with Process Mining tools
- Key performance indicators (KPIs) for monitoring ERP processes
- Automated alerts and notifications for process deviations
- Real-time decision-making based on process data
- Case study: Implementing a 24/7 process monitoring system for an e-commerce ERP

Module 7: Performance Analytics and Reporting

- Creating custom dashboards for ERP process analysis
- Key performance metrics for ERP process optimization
- Using analytics tools to improve decision-making
- Reporting on process performance for stakeholders

- Case study: Dashboards for monitoring ERP success metrics in finance

Module 8: Process Optimization and Continuous Improvement

- Best practices for ERP process optimization
- Techniques for implementing continuous improvement cycles
- Data-driven approaches to streamline ERP operations
- Change management strategies in process optimization
- Case study: Continuous improvement in a global HR ERP system

Module 9: Integrating AI and Machine Learning with Process Mining

- Role of AI and ML in process discovery and optimization
- Predictive analytics for ERP process management
- Case study: AI-powered process optimization in a retail ERP system
- Tools for machine learning-driven decision-making in ERP
- Ethical considerations in AI-driven process optimization

Module 10: Enhancing Cross-Departmental Collaboration Using Process Mining

- How Process Mining enables better collaboration between departments
- Role of data-sharing and communication tools
- Improving inter-departmental process flows and transparency
- Case study: Optimizing supply chain and finance collaboration with Process Mining
- Aligning departmental goals with ERP process optimization

Module 11: Building a Business Case for Process Mining Implementation

- Estimating ROI from Process Mining in ERP systems
- Identifying cost-saving opportunities through process optimization
- Presenting the case for Process Mining to key stakeholders
- Evaluating potential benefits and risks
- Case study: Securing leadership buy-in for a Process Mining initiative in manufacturing

Module 12: Process Mining for Compliance and Risk Management

- Using Process Mining to identify compliance gaps in ERP systems
- Risk management through real-time process monitoring
- Ensuring adherence to industry regulations with Process Mining
- Auditing ERP processes for accuracy and compliance
- Case study: Compliance optimization in an ERP for healthcare

Module 13: The Future of Process Mining in ERP

- Emerging trends in Process Mining technology
- How AI, IoT, and blockchain will impact ERP and Process Mining
- The role of Process Mining in digital transformation strategies
- Building a roadmap for long-term Process Mining implementation
- Case study: Future-proofing ERP systems with Process Mining

Module 14: Hands-on Session: Using Process Mining Tools for ERP

- Introduction to popular Process Mining tools (Celonis, Disco, etc.)

- Practical session on extracting and analyzing ERP data
- Step-by-step process discovery and visualization
- Real-time process conformance checking
- Case study: Hands-on demonstration of process mining in a SAP environment

Module 15: Final Project and Certification

- Recap of the course and key takeaways
- Case study: Developing a Process Mining project using ERP data
- Presentation of final projects by participants
- Evaluation and feedback session
- Awarding certificates of completion

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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